## ELECTRON CLOUD AND VACUUM EFFECTS IN THE SPS

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## Abstract

The 2004 SPS run with LHC-type beams will probably be the latest one before the start up of the LHC machine and a number of opened questions still remain. During this presentation, the behavior of the SPS as the future injector of the LHC will be reviewed and the opened questions will be discussed. The experimental program

which has been prepared will be presented and discussed together with new detectors being installed in the SPS ring. This experimental program aims to confirm the preliminary results on the heat loads, vacuum cleaning and beam conditioning under both dipole and field free conditions at RT and at 4.5 or 30 K and provide information on the parameters which could play a non negligible role in the extrapolation of the SPS results towards the LHC.

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